

Name : _____

Constant of Variation - Equation

L2S3

1) $\frac{\sqrt{z}}{2} = 8yx$. Find the constant of variation if,

a) x varies directly with \sqrt{z} and inversely with y . _____

b) z varies jointly with x^2 and y^2 . _____

2) $75u = \frac{9s}{t}$. Find the constant of variation if,

a) s varies jointly with _____

b) t varies directly with _____

3) $-12v + 6u = 0$. Find the constant of variation if,

a) u varies directly with _____

b) v varies directly with _____

4) $\frac{3}{7t} - y = 0$. Find the constant of variation if,

a) t varies inversely with _____

b) y varies inversely with t . _____

5) $\frac{q}{r} = 6p^2$. Find the constant of variation if,

a) r varies directly with q and inversely with p^2 . _____

b) q varies jointly with r and p^2 . _____

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Constant of Variation - Equation

L2S3

1) $\frac{\sqrt{z}}{2} = 8yx$. Find the constant of variation if,

a) x varies directly with \sqrt{z} and inversely with y .

$$k = \frac{1}{16}$$

b) z varies jointly with x^2 and y^2 .

$$k = 256$$

2) $75u = \frac{9s}{t}$. Find the constant of variation if,

a) s varies jointly with u and t .

$$k = \frac{25}{3}$$

b) t varies directly with u and s .

$$k = \frac{3}{25}$$

3) $-12v + 6u = 0$. Find the constant of variation if,

a) u varies directly with v .

$$k = 2$$

b) v varies directly with u .

$$k = \frac{1}{2}$$

4) $\frac{3}{7t} - y = 0$. Find the constant of variation if,

a) t varies inversely with y .

$$k = \frac{3}{7}$$

b) y varies inversely with t .

$$k = \frac{3}{7}$$

5) $\frac{q}{r} = 6p^2$. Find the constant of variation if,

a) r varies directly with q and inversely with p^2 .

$$k = \frac{1}{6}$$

b) q varies jointly with r and p^2 .

$$k = 6$$

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